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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR			ATTORNEY DOCKET NO.
9/362,192	07/28/99	YAMAZAKI		S	0756-2011
		hahama zo amo	コ		EXAMINER
022204 NIXON PEABODY, LLP		MM91/0430		SIMKOV	IC, V
:180 GREENSE				ART UNIT	PAPER NUMBER
UITE 800 ICLEAN VA 22	2102			2812	
		·		DATE MAILED	04/30/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trad marks

	Application No.	Applicant(s)
Office Action Summary	09/362,192	YAMAZAKI ET AL.
	Examin r	Art Unit
	Viktor Simkovic	2812
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet wi	th the correspondence address
A SHORTENED STATUTORY PERIOD FOR F THE MAILING DATE OF THIS COMMUNICAT - Extensions of time may be available under the provisions of 37 of after SIX (6) MONTHS from the mailing date of this communicat - If the period for reply specified above is less than thirty (30) days - If NO period for reply is specified above, the maximum statutory - Failure to reply within the set or extended period for reply will, by - Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b). Status	ION. CFR 1.136 (a). In no event, however, may a ion. s, a reply within the statutory minimum of thi period will apply and will expire SIX (6) MOI statute. cause the application to become A	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this communication.
1) Responsive to communication(s) filed or	n <u>19 April 2001</u> .	·
2a) ☐ This action is FINAL . 2b) ∑	This action is non-final.	
3) Since this application is in condition for a closed in accordance with the practice u	allowance except for formal ma inder <i>Ex parte Quayle</i> , 1935 C.	ntters, prosecution as to the merits is D. 11, 453 O.G. 213.
Disposition of Claims		
4) Claim(s) 45-66 is/are pending in the app	lication.	
4a) Of the above claim(s) is/are wit	hdrawn from consideration.	
5) Claim(s) is/are allowed.		ı
6)⊠ Claim(s) <u>45-66</u> is/are rejected.	•	
7) Claim(s) is/are objected to.		
8) Claims are subject to restriction a	ind/or election requirement.	
Application Papers		•
9) The specification is objected to by the Exa	aminer.	
10) The drawing(s) filed on is/are object		
11) The proposed drawing correction filed on		disapproved
12) The oath or declaration is objected to by t		
Priority under 35 U.S.C. ፩ 119		
13) Acknowledgment is made of a claim for fo	reian priority under 35 H S C 3	\$ 110(a) (d) or (f)
a)⊠ All b)□ Some * c)□ None of:	roigh phonty under 55 0.5.6. §	(1) (i).
1. ☐ Certified copies of the priority docur	mente have been received	
		and and an Alice
3.☐ Copies of the certified copies of the application from the Internationa* See the attached detailed Office action for a	al Bureau (PCT Rule 17.2(a)).	•
14) Acknowledgement is made of a claim for c		
attachment(s)		
5) Notice of References Cited (PTO-892)	18) 🔲 Interview	Summary (PTO-413) Paper No(s)
6)	(8) 19) Notice of	Informal Patent Application (PTO-152)
Patent and Trademark Office		

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DETAILED ACTION

Claim Objections

Claim 45 is objected to because of the following informalities: the second line of the claim is duplicated. Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 47, 54, and 62 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. It is not clear what is meant by the phrase "without melting through a solid state". The Examiner will interpret this as meaning —without melting —.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

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Claims 45, 47-48, 60, 62-63 are rejected under 35 U.S.C. 102(b) as being anticipated by Fonash et al. Fonash et al. teach a method for manufacturing a semiconductor device comprising the steps of:

forming an initial semiconducting film;

subjecting said film to oxygen plasma;

crystallizing said film to obtain a crystalline semiconducting film.

See column 3, lines 11-17 and 39-53, and column 4, lines 40-67.

Claims 46, 49-59, 61, 64-66 are rejected under 35 U.S.C. 102(e) as being anticipated by Miyasaka ('516). Miyasaka teaches a method of forming a semiconducting device comprising the steps of:

contacting a material for promoting crystallization to at least a part of an initial semiconducting film;

forming the initial semiconducting film;

subjecting said film to oxygen plasma;

crystallizing said film to obtain a crystalline semiconducting film, by irradiating with a laser light.

See column 38, lines 26-33 and 38-61, and column 39, lines 30-34. Note specifically that in column 38, lines 26-33, Miyasaka discloses that the underlayer is processed with hydrogen and oxygen plasmas to promote better adhesion with the semiconducting film, which leads to better crystallization. Thus this underlayer is treated to promote crystallization.

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Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Viktor Simkovic whose telephone number is 703-308-6170. The examiner can normally be reached on Mon - Fri, 9:00 - 6:00, except every other Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Niebling can be reached on 703-308-3325. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7722 for regular communications and 703-308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1782.

Viktor Simkovic April 26, 2001

Supervisory Patent Examiner
Technology Center 2800